

Abstract

A data transmission system for transmitting data among a plurality of electronic apparatuses each having a communication function, in which power consumption of the electronic apparatuses can be reduced, and data transmission among the electronic apparatuses can be surely carried out. In a communication standby state, an information processing unit transmits a synchronous signal at given intervals of X seconds, a biological information processing unit has a reception period corresponding to a timing synchronous with the synchronous signal, and the information processing unit and the biological information processing unit are synchronized with each other. In this state, after the information processing unit transmits a data request signal, the biological information processing unit transmits data Log1 to Log3 which have respective predetermined lengths and which are obtained through a division process. After the end of the data transmission, the operation state returns back to the communication standby state again, in which the information processing unit and the biological information processing unit are synchronized with each other.